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SEQUENCE LISTING

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<120> Inducing Cellular Immune Responses to Carcinoembryonic Antigen
Using Peptide and Nucleic Acid Compositions

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<150> US 09/098,584

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<150> US 09/017,735

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<150> US 08/589,108

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Thr Tyr Tyr Arg Pro Gly Val Asn Leu Ser Leu

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<400> 1808
Val Tyr Ala Glu Pro Pro Lys Pro Phe
1 5

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<400> 1809
Val Tyr Ala Glu Pro Pro Lys Pro Phe Ile
1 5 10

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<400> 1810
Val Tyr Pro Glu Leu Pro Lys Pro Ser Ile
1 5 10

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<400> 1811
Trp Trp Val Asn Gly Gln Ser Leu
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<400> 1812
Trp Trp Val Asn Asn Gln Ser Leu
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<400> 1813
Tyr Tyr Arg Pro Gly Val Asn Leu
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<400> 1814
Tyr Tyr Arg Pro Gly Val Asn Leu Ser Leu
1 5 10

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<400> 1815
Arg Trp Cys Ile Pro Trp Gln Arg Leu Leu Leu Thr Ala Ser Leu
1 5 10 15

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<400> 1816
Cys Ile Pro Trp Gln Arg Leu Leu Leu Thr Ala Ser Leu Leu Thr
1 5 10 15

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<400> 1817

Trp	Gln	Arg	Leu	Leu	Leu	Thr	Ala	Ser	Leu	Leu	Thr	Phe	Trp	Asn
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<210> 1818

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<400> 1818

Gln	Arg	Leu	Leu	Leu	Thr	Ala	Ser	Leu	Leu	Thr	Phe	Trp	Asn	Pro
1				5					10					15

<210> 1819

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<400> 1819

Arg	Leu	Leu	Leu	Thr	Ala	Ser	Leu	Leu	Thr	Phe	Trp	Asn	Pro	Pro
1				5					10					15

<210> 1820

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<400> 1820

Ala	Ser	Leu	Leu	Thr	Phe	Trp	Asn	Pro	Pro	Thr	Thr	Ala	Lys	Leu
1				5					10					15

<210> 1821

<211> 15

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<400> 1821

Leu	Leu	Thr	Phe	Trp	Asn	Pro	Pro	Thr	Thr	Ala	Lys	Leu	Thr	Ile
1				5					10					15

<210> 1822

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<400> 1822
Leu Thr Phe Trp Asn Pro Pro Thr Thr Ala Lys Leu Thr Ile Glu
1 5 10 15

<210> 1823
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<400> 1823
Thr Ala Lys Leu Thr Ile Glu Ser Thr Pro Phe Asn Val Ala Glu
1 5 10 15

<210> 1824
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<400> 1824
Glu Val Leu Leu Val His Asn Leu Pro Gln His Leu Phe Gly
1 5 10 15

<210> 1825
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<400> 1825
Val Leu Leu Leu Val His Asn Leu Pro Gln His Leu Phe Gly Tyr
1 5 10 15

<210> 1826
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<400> 1826
Tyr Ser Trp Tyr Lys Gly Glu Arg Val Asp Gly Asn Arg Gln Ile
1 5 10 15

<210> 1827
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<400> 1827
Asn Arg Gln Ile Ile Gly Tyr Val Ile Gly Thr Gln Gln Ala Thr
1 5 10 15

<210> 1828
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<400> 1828
Gly Tyr Val Ile Gly Thr Gln Gln Ala Thr Pro Gly Pro Ala Tyr
1 5 10 15

<210> 1829
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<400> 1829
Gly Pro Ala Tyr Ser Gly Arg Glu Ile Ile Tyr Pro Asn Ala Ser
1 5 10 15

<210> 1830
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<400> 1830
Gly Arg Glu Ile Ile Tyr Pro Asn Ala Ser Leu Leu Ile Gln Asn
1 5 10 15

<210> 1831
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<400> 1831
Arg Glu Ile Ile Tyr Pro Asn Ala Ser Leu Leu Ile Gln Asn Ile

1	5	10	15
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<210> 1832
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<220>
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<400> 1832
Glu Ile Ile Tyr Pro Asn Ala Ser Leu Leu Ile Gln Asn Ile Ile
1 5 10 15

<210> 1833
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<212> PRT
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<400> 1833
Asn Ala Ser Leu Leu Ile Gln Asn Ile Ile Gln Asn Asp Thr Gly
1 5 10 15

<210> 1834
<211> 15
<212> PRT
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<220>
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<400> 1834
Ala Ser Leu Leu Ile Gln Asn Ile Ile Gln Asn Asp Thr Gly Phe
1 5 10 15

<210> 1835
<211> 15
<212> PRT
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<220>
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<400> 1835
Ile Gln Asn Ile Ile Gln Asn Asp Thr Gly Phe Tyr Thr Leu His
1 5 10 15

<210> 1836
<211> 15
<212> PRT
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<400> 1836

Asp	Thr	Gly	Phe	Tyr	Thr	Leu	His	Val	Ile	Lys	Ser	Asp	Leu	Val
1				5					10				15	

<210> 1837

<211> 15

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<400> 1837

Thr	Gly	Phe	Tyr	Thr	Leu	His	Val	Ile	Lys	Ser	Asp	Leu	Val	Asn
1				5					10				15	

<210> 1838

<211> 15

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<223> Artificial Peptide

<400> 1838

Phe	Tyr	Thr	Leu	His	Val	Ile	Lys	Ser	Asp	Leu	Val	Asn	Glu	Glu
1				5					10				15	

<210> 1839

<211> 15

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<400> 1839

Thr	Leu	His	Val	Ile	Lys	Ser	Asp	Leu	Val	Asn	Glu	Glu	Ala	Thr
1				5					10				15	

<210> 1840

<211> 15

<212> PRT

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<400> 1840

Leu	His	Val	Ile	Lys	Ser	Asp	Leu	Val	Asn	Glu	Glu	Ala	Thr	Gly
1				5					10				15	

<210> 1841

<211> 15

<212> PRT

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<400> 1841

Lys	Ser	Asp	Leu	Val	Asn	Glu	Glu	Ala	Thr	Gly	Gln	Phe	Arg	Val
1				5					10					15

<210> 1842

<211> 15

<212> PRT

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<400> 1842

Ser	Asp	Leu	Val	Asn	Glu	Glu	Ala	Thr	Gly	Gln	Phe	Arg	Val	Tyr
1				5					10					15

<210> 1843

<211> 15

<212> PRT

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<400> 1843

Gln	Phe	Arg	Val	Tyr	Pro	Glu	Leu	Pro	Lys	Pro	Ser	Ile	Ser	Ser
1				5					10					15

<210> 1844

<211> 15

<212> PRT

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<400> 1844

Tyr	Pro	Glu	Leu	Pro	Lys	Pro	Ser	Ile	Ser	Ser	Asn	Asn	Ser	Lys
1				5					10					15

<210> 1845

<211> 15

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<400> 1845

Lys	Pro	Ser	Ile	Ser	Ser	Asn	Asn	Ser	Lys	Pro	Val	Glu	Asp	Lys
1				5					10					15

<210> 1846

<211> 15

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<400> 1846
Ser Lys Pro Val Glu Asp Lys Asp Ala Val Ala Phe Thr Cys Glu
1 5 10 15

<210> 1847
<211> 15
<212> PRT
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<220>
<223> Artificial Peptide

<400> 1847
Tyr Leu Trp Trp Val Asn Asn Gln Ser Leu Pro Val Ser Pro Arg
1 5 10 15

<210> 1848
<211> 15
<212> PRT
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<400> 1848
Leu Trp Trp Val Asn Asn Gln Ser Leu Pro Val Ser Pro Arg Leu
1 5 10 15

<210> 1849
<211> 15
<212> PRT
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<220>
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<400> 1849
Asn Arg Thr Leu Thr Leu Phe Asn Val Thr Arg Asn Asp Thr Ala
1 5 10 15

<210> 1850
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
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<400> 1850
Leu Phe Asn Val Thr Arg Asn Asp Thr Ala Ser Tyr Lys Cys Glu
1 5 10 15

<210> 1851
<211> 15
<212> PRT
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<220>
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<400> 1851
Gln Asn Pro Val Ser Ala Arg Arg Ser Asp Ser Val Ile Leu Asn
1 5 10 15

<210> 1852
<211> 15
<212> PRT
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<220>
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<400> 1852
Ser Asp Ser Val Ile Leu Asn Val Leu Tyr Gly Pro Asp Ala Pro
1 5 10 15

<210> 1853
<211> 15
<212> PRT
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<220>
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<400> 1853
Leu Asn Val Leu Tyr Gly Pro Asp Ala Pro Thr Ile Ser Pro Leu
1 5 10 15

<210> 1854
<211> 15
<212> PRT
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<220>
<223> Artificial Peptide

<400> 1854
Asn Val Leu Tyr Gly Pro Asp Ala Pro Thr Ile Ser Pro Leu Asn
1 5 10 15

<210> 1855
<211> 15
<212> PRT
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<220>
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<400> 1855
Ala Pro Thr Ile Ser Pro Leu Asn Thr Ser Tyr Arg Ser Gly Glu

1 5 10 15

<210> 1856
<211> 15
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<220>
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<400> 1856
Asn Leu Asn Leu Ser Cys His Ala Ala Ser Asn Pro Pro Ala Gln
1 5 10 15

<210> 1857
<211> 15
<212> PRT
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<220>
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<400> 1857
Gln Tyr Ser Trp Phe Val Asn Gly Thr Phe Gln Gln Ser Thr Gln
1 5 10 15

<210> 1858
<211> 15
<212> PRT
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<220>
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<400> 1858
Thr Gln Glu Leu Phe Ile Pro Asn Ile Thr Val Asn Asn Ser Gly
1 5 10 15

<210> 1859
<211> 15
<212> PRT
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<220>
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<400> 1859
Gln Glu Leu Phe Ile Pro Asn Ile Thr Val Asn Asn Ser Gly Ser
1 5 10 15

<210> 1860
<211> 15
<212> PRT
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<220>
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<400> 1860

Glu Leu Phe Ile Pro Asn Ile Thr Val Asn Asn Ser Gly Ser Tyr
1 5 10 15

<210> 1861

<211> 15

<212> PRT

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<220>

<223> Artificial Peptide

<400> 1861

Ile Pro Asn Ile Thr Val Asn Asn Ser Gly Ser Tyr Thr Cys Gln
1 5 10 15

<210> 1862

<211> 15

<212> PRT

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<220>

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<400> 1862

Asn Ile Thr Val Asn Asn Ser Gly Ser Tyr Thr Cys Gln Ala His
1 5 10 15

<210> 1863

<211> 15

<212> PRT

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<400> 1863

Asp Thr Gly Leu Asn Arg Thr Thr Val Thr Thr Ile Thr Val Tyr
1 5 10 15

<210> 1864

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Artificial Peptide

<400> 1864

Arg Thr Thr Val Thr Thr Ile Thr Val Tyr Ala Glu Pro Pro Lys
1 5 10 15

<210> 1865

<211> 15

<212> PRT

<213> Artificial Sequence

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<223> Artificial Peptide

<400> 1865

Thr	Ile	Thr	Val	Tyr	Ala	Glu	Pro	Pro	Lys	Pro	Phe	Ile	Thr	Ser
1				5					10					15

<210> 1866

<211> 15

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<223> Artificial Peptide

<400> 1866

Lys	Pro	Phe	Ile	Thr	Ser	Asn	Asn	Ser	Asn	Pro	Val	Glu	Asp	Glu
1				5					10					15

<210> 1867

<211> 15

<212> PRT

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<223> Artificial Peptide

<400> 1867

Ser	Asn	Pro	Val	Glu	Asp	Glu	Asp	Ala	Val	Ala	Leu	Thr	Cys	Glu
1				5					10					15

<210> 1868

<211> 15

<212> PRT

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<220>

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<400> 1868

Asn	Arg	Thr	Leu	Thr	Leu	Leu	Ser	Val	Thr	Arg	Asn	Asp	Val	Gly
1				5					10					15

<210> 1869

<211> 15

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<220>

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<400> 1869

Leu	Leu	Ser	Val	Thr	Arg	Asn	Asp	Val	Gly	Pro	Tyr	Glu	Cys	Gly
1				5					10					15

<210> 1870

<211> 15

<212> PRT
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<220>
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<400> 1870
Arg Asn Asp Val Gly Pro Tyr Glu Cys Gly Ile Gln Asn Glu Leu
1 5 10 15

<210> 1871
<211> 15
<212> PRT
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<220>
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<400> 1871
Glu Cys Gly Ile Gln Asn Glu Leu Ser Val Asp His Ser Asp Pro
1 5 10 15

<210> 1872
<211> 15
<212> PRT
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<220>
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<400> 1872
Gln Asn Glu Leu Ser Val Asp His Ser Asp Pro Val Ile Leu Asn
1 5 10 15

<210> 1873
<211> 15
<212> PRT
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<220>
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<400> 1873
Glu Leu Ser Val Asp His Ser Asp Pro Val Ile Leu Asn Val Leu
1 5 10 15

<210> 1874
<211> 15
<212> PRT
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<220>
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<400> 1874
Ser Asp Pro Val Ile Leu Asn Val Leu Tyr Gly Pro Asp Asp Pro
1 5 10 15

<210> 1875
<211> 15
<212> PRT
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<220>
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<400> 1875
Asn Val Leu Tyr Gly Pro Asp Asp Pro Thr Ile Ser Pro Ser Tyr
1 5 10 15

<210> 1876
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
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<400> 1876
Asp Pro Thr Ile Ser Pro Ser Tyr Thr Tyr Tyr Arg Pro Gly Val
1 5 10 15

<210> 1877
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
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<400> 1877
Ser Pro Ser Tyr Thr Tyr Tyr Arg Pro Gly Val Asn Leu Ser Leu
1 5 10 15

<210> 1878
<211> 15
<212> PRT
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<220>
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<400> 1878
Ser Tyr Thr Tyr Tyr Arg Pro Gly Val Asn Leu Ser Leu Ser Cys
1 5 10 15

<210> 1879
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
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<400> 1879
Arg Pro Gly Val Asn Leu Ser Leu Ser Cys His Ala Ala Ser Asn

1	5	10	15
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<210> 1880
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<212> PRT
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<220>
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<400> 1880
Asn Leu Ser Leu Ser Cys His Ala Ala Ser Asn Pro Pro Ala Gln
1 5 10 15

<210> 1881
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
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<400> 1881
Tyr Ser Trp Leu Ile Asp Gly Asn Ile Gln Gln His Thr Gln Glu
1 5 10 15

<210> 1882
<211> 15
<212> PRT
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<220>
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<400> 1882
Thr Gln Glu Leu Phe Ile Ser Asn Ile Thr Glu Lys Asn Ser Gly
1 5 10 15

<210> 1883
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<212> PRT
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<220>
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<400> 1883
Gln Glu Leu Phe Ile Ser Asn Ile Thr Glu Lys Asn Ser Gly Leu
1 5 10 15

<210> 1884
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<400> 1884

Ile Ser Asn Ile Thr Glu Lys Asn Ser Gly Leu Tyr Thr Cys Gln
1 5 10 15

<210> 1885

<211> 15

<212> PRT

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<220>

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<400> 1885

Asn Ser Gly Leu Tyr Thr Cys Gln Ala Asn Asn Ser Ala Ser Gly
1 5 10 15

<210> 1886

<211> 15

<212> PRT

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<220>

<223> Artificial Peptide

<400> 1886

Arg Thr Thr Val Lys Thr Ile Thr Val Ser Ala Glu Leu Pro Lys
1 5 10 15

<210> 1887

<211> 15

<212> PRT

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<220>

<223> Artificial Peptide

<400> 1887

Thr Ile Thr Val Ser Ala Glu Leu Pro Lys Pro Ser Ile Ser Ser
1 5 10 15

<210> 1888

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

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<400> 1888

Ser Ala Glu Leu Pro Lys Pro Ser Ile Ser Ser Asn Asn Ser Lys
1 5 10 15

<210> 1889

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

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<400> 1889

Tyr	Leu	Trp	Trp	Val	Asn	Gly	Gln	Ser	Leu	Pro	Val	Ser	Pro	Arg
1				5					10					15

<210> 1890

<211> 15

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<220>

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<400> 1890

Leu	Trp	Trp	Val	Asn	Gly	Gln	Ser	Leu	Pro	Val	Ser	Pro	Arg	Leu
1				5					10					15

<210> 1891

<211> 15

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<400> 1891

Asn	Arg	Thr	Leu	Thr	Leu	Phe	Asn	Val	Thr	Arg	Asn	Asp	Ala	Arg
1					5					10				15

<210> 1892

<211> 15

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<223> Artificial Peptide

<400> 1892

Leu	Phe	Asn	Val	Thr	Arg	Asn	Asp	Ala	Arg	Ala	Tyr	Val	Cys	Gly
1					5				10					15

<210> 1893

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<212> PRT

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<220>

<223> Artificial Peptide

<400> 1893

Val	Cys	Gly	Ile	Gln	Asn	Ser	Val	Ser	Ala	Asn	Arg	Ser	Asp	Pro
1					5				10					15

<210> 1894

<211> 15

<212> PRT
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<400> 1894
Gln Asn Ser Val Ser Ala Asn Arg Ser Asp Pro Val Thr Leu Asp
1 5 10 15

<210> 1895
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Artificial Peptide

<400> 1895
Ser Asp Pro Val Thr Leu Asp Val Leu Tyr Gly Pro Asp Thr Pro
1 5 10 15

<210> 1896
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Artificial Peptide

<400> 1896
Leu Asp Val Leu Tyr Gly Pro Asp Thr Pro Ile Ile Ser Pro Pro
1 5 10 15

<210> 1897
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Artificial Peptide

<400> 1897
Asp Val Leu Tyr Gly Pro Asp Thr Pro Ile Ile Ser Pro Pro Asp
1 5 10 15

<210> 1898
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Artificial Peptide

<400> 1898
Thr Pro Ile Ile Ser Pro Pro Asp Ser Ser Tyr Leu Ser Gly Ala
1 5 10 15

<210> 1899
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Artificial Peptide

<400> 1899
Ser Ser Tyr Leu Ser Gly Ala Asn Leu Asn Leu Ser Cys His Ser
1 5 10 15

<210> 1900
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Artificial Peptide

<400> 1900
Asn Leu Asn Leu Ser Cys His Ser Ala Ser Asn Pro Ser Pro Gln
1 5 10 15

<210> 1901
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Artificial Peptide

<400> 1901
Gln Tyr Ser Trp Arg Ile Asn Gly Ile Pro Gln Gln His Thr Gln
1 5 10 15

<210> 1902
<211> 15
<212> PRT
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<220>
<223> Artificial Peptide

<400> 1902
Ile Asn Gly Ile Pro Gln Gln His Thr Gln Val Leu Phe Ile Ala
1 5 10 15

<210> 1903
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
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<400> 1903
Thr Gln Val Leu Phe Ile Ala Lys Ile Thr Pro Asn Asn Asn Gly

1 5 10 15

<210> 1904
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
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<400> 1904
Gln Val Leu Phe Ile Ala Lys Ile Thr Pro Asn Asn Asn Gly Thr
1 5 10 15

<210> 1905
<211> 15
<212> PRT
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<220>
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<400> 1905
Val Leu Phe Ile Ala Lys Ile Thr Pro Asn Asn Asn Gly Thr Tyr
1 5 10 15

<210> 1906
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Artificial Peptide

<400> 1906
Asn Gly Thr Tyr Ala Cys Phe Val Ser Asn Leu Ala Thr Gly Arg
1 5 10 15

<210> 1907
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<400> 1908

Ala Cys Phe Val Ser Asn Leu Ala Thr Gly Arg Asn Asn Ser Ile
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Asn Asn Ser Ile Val Lys Ser Ile Thr Val Ser Ala Ser Gly Thr
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Asn Ser Ile Val Lys Ser Ile Thr Val Ser Ala Ser Gly Thr Ser
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<210> 1911

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<400> 1911

Val Lys Ser Ile Thr Val Ser Ala Ser Gly Thr Ser Pro Gly Leu
1 5 10 15

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<400> 1912

Ser Ile Thr Val Ser Ala Ser Gly Thr Ser Pro Gly Leu Ser Ala
1 5 10 15

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Thr	Val	Gly	Ile	Met	Ile	Gly	Val	Leu	Val	Gly	Val	Ala	Leu	Ile
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Tyr	Ser	Trp	Tyr	Lys	Gly	Glu	Arg	Val	Asp	Gly	Asn	Arg	Gln	Ile
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Asn	Gln	Ser	Leu	Pro	Val	Ser	Pro	Arg	Leu	Gln	Leu	Ser	Asn	Gly
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Gly Glu Asn Leu Asn Leu Ser Cys His Ala Ala Ser Asn Pro Pro
1 5 10 15

<210> 1919
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Gly Gln Ser Leu Pro Val Ser Pro Arg Leu Gln Leu Ser Asn Gly
1 5 10 15

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<400> 1920
Gln Asn Ile Ile Gln Asn Asp Thr Gly Phe Tyr Thr Leu His Val
1 5 10 15

<210> 1921
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<400> 1921
Leu His Val Ile Lys Ser Asp Leu Val Asn Glu Glu Ala Thr Gly
1 5 10 15

<210> 1922
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<400> 1922
Lys Ser Asp Leu Val Asn Glu Glu Ala Thr Gly Gln Phe Arg Val
1 5 10 15

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<400> 1923
Ser Asp Leu Val Asn Glu Glu Ala Thr Gly Gln Phe Arg Val Tyr
1 5 10 15

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Gln Phe Arg Val Tyr Pro Glu Leu Pro Lys Pro Ser Ile Ser Ser
1 5 10 15

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Ala Val Ala Phe Thr Cys Glu Pro Glu Thr Gln Asp Ala Thr Tyr
1 5 10 15

<210> 1926
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<400> 1926
Thr Ala Ser Tyr Lys Cys Glu Thr Gln Asn Pro Val Ser Ala Arg
1 5 10 15

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Asn Val Leu Tyr Gly Pro Asp Ala Pro Thr Ile Ser Pro Leu Asn

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Thr Ile Thr Val Tyr Ala Glu Pro Pro Lys Pro Phe Ile Thr Ser
1 5 10 15

<210> 1929
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<400> 1929
Ser Asn Pro Val Glu Asp Glu Asp Ala Val Ala Leu Thr Cys Glu
1 5 10 15

<210> 1930
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<400> 1930
Ala Val Ala Leu Thr Cys Glu Pro Glu Ile Gln Asn Thr Thr Tyr
1 5 10 15

<210> 1931
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<400> 1931
Glu Cys Gly Ile Gln Asn Glu Leu Ser Val Asp His Ser Asp Pro
1 5 10 15

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Gln	Asn	Glu	Leu	Ser	Val	Asp	His	Ser	Asp	Pro	Val	Ile	Leu	Asn
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Asn	Val	Leu	Tyr	Gly	Pro	Asp	Asp	Pro	Thr	Ile	Ser	Pro	Ser	Tyr
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Thr	Ile	Thr	Val	Ser	Ala	Glu	Leu	Pro	Lys	Pro	Ser	Ile	Ser	Ser
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<210> 1935

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Ala	Val	Ala	Phe	Thr	Cys	Glu	Pro	Glu	Ala	Gln	Asn	Thr	Thr	Tyr
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Ser	Asp	Pro	Val	Thr	Leu	Asp	Val	Leu	Tyr	Gly	Pro	Asp	Thr	Pro
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Asp	Val	Leu	Tyr	Gly	Pro	Asp	Thr	Pro	Ile	Ile	Ser	Pro	Pro	Asp
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Asn	Glu	Glu	Ala	Thr	Gly	Gln	Phe	Arg	Val	Tyr	Pro	Glu	Leu	Pro
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<210> 1939

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Ile	Ser	Pro	Leu	Asn	Thr	Ser	Tyr	Arg	Ser	Gly	Glu	Asn	Leu	Asn
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Ser	Gly	Ser	Tyr	Thr	Cys	Gln	Ala	His	Asn	Ser	Asp	Thr	Gly	Leu
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<400> 1943
Gly Val Asn Leu Ser Leu Ser Cys His Ala Ala Ser Asn Pro Pro
1 5 10 15

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<400> 1944
Gly Ala Asn Leu Asn Leu Ser Cys His Ser Ala Ser Asn Pro Ser
1 5 10 15

<210> 1945
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<400> 1945
Arg Leu Pro Ala Ser Pro Glu Thr His Leu Asp Met Leu Arg His
1 5 10 15

<210> 1946
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<400> 1946
Val Leu Ile Ala His Asn Gln Val Arg Gln Val Pro Leu Gln Arg
1 5 10 15

<210> 1947
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<400> 1947
Ala Leu Thr Leu Ile Asp Thr Asn Arg Ser Arg Ala Cys His Pro
1 5 10 15

<210> 1948
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<400> 1948
Leu Ala Leu Ile His His Asn Thr His Leu Cys Phe Val His Thr
1 5 10 15

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<400> 1949
Trp Asp Gln Leu Phe Arg Asn Pro His Gln Ala Leu Leu His Thr
1 5 10 15

<210> 1950
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<400> 1950
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1 5 10 15

<210> 1951
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<400> 1951
Gly Met Ser Tyr Leu Glu Asp Val Arg Leu Val His Arg Asp Leu

1 5 10 15

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<400> 1952
Cys Trp Met Ile Asp Ser Glu Cys Arg Pro Arg Phe Arg Glu Leu
1 5 10 15

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<400> 1953
Gln Gly Gly Ala Ala Pro Gln Pro His Pro Pro Pro Ala Phe Ser
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<400> 1954
Glu Phe Gln Ala Ala Ile Ser Arg Lys Met Val Glu Leu Val His
1 5 10 15

<210> 1955
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<400> 1955
Val Lys Val Leu His His Thr Leu Lys Ile Gly Gly Glu Pro His
1 5 10 15

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Thr	Leu	Lys	Ile	Gly	Gly	Glu	Pro	His	Ile	Ser	Tyr	Pro	Pro	Leu
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Glu	Phe	Gln	Ala	Ala	Leu	Ser	Arg	Lys	Val	Ala	Glu	Leu	Val	His
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Glu	Asp	Ser	Ile	Leu	Gly	Asp	Pro	Lys	Lys	Leu	Leu	Thr	Gln	His
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Met	Ala	Ile	Tyr	Lys	Gln	Ser	Gln	His	Met	Thr	Glu	Val	Val	Arg
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Leu	Ile	Arg	Val	Glu	Gly	Asn	Leu	Arg	Val	Glu	Tyr	Leu	Asp	Asp
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<400> 1961

Gly Glu Tyr Phe Thr Leu Gln Ile Arg Gly Arg Glu Arg Phe Glu
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Trp Gln Arg Leu Leu Leu Thr Ala Ser
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<210> 1964

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Leu Leu Leu Thr Ala Ser Leu Leu Thr
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<210> 1965

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Leu Leu Thr Ala Ser Leu Leu Thr Phe
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<210> 1966

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Tyr Ser Gly Arg Glu Ile Ile Tyr Pro
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Ile Ile Tyr Pro Asn Ala Ser Leu Leu
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<400> 1978
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<210> 1979
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<210> 1980
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<210> 1981
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Leu Ile Gln Asn Ile Ile Gln Asn Asp
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<400> 1982
Ile Ile Gln Asn Asp Thr Gly Phe Tyr
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<210> 1983
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<400> 1983
Phe Tyr Thr Leu His Val Ile Lys Ser
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<210> 1984
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<210> 1985
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Leu His Val Ile Lys Ser Asp Leu Val
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<210> 1986

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<210> 1987

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<210> 1988

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<210> 1989

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<210> 1990

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<210> 1991
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Val Asn Asn Gln Ser Leu Pro Val Ser
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Val Ser Ala Arg Arg Ser Asp Ser Val
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Leu Tyr Gly Pro Asp Ala Pro Thr Ile

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<210> 2001

<211> 9

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<400> 2001

Tyr Gly Pro Asp Ala Pro Thr Ile Ser

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<210> 2002

<211> 9

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<223> Artificial Peptide

<400> 2002

Ile Ser Pro Leu Asn Thr Ser Tyr Arg

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<210> 2003

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<400> 2003

Leu Ser Cys His Ala Ala Ser Asn Pro

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<210> 2005
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Leu Phe Ile Pro Asn Ile Thr Val Asn
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<210> 2006
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<210> 2007
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<210> 2008
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<400> 2009

Val Asn Asn Ser Gly Ser Tyr Thr Cys
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Leu Asn Arg Thr Thr Val Thr Thr Ile
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Val Thr Thr Ile Thr Val Tyr Ala Glu
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<210> 2012

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<400> 2012

Val Tyr Ala Glu Pro Pro Lys Pro Phe
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<210> 2013

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Ile Thr Ser Asn Asn Ser Asn Pro Val
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1 5

<210> 2017
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Xaa Cys Xaa Gly Xaa Xaa Xaa Asn Gly
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